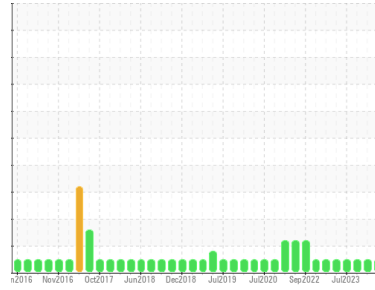




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
NOVA BUS 1504
 Component
Diesel Engine
 Fluid
VALVOLINE 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WC0875102	WC0843575	WC0828579
Sample Date	Client Info			23 Nov 2023	16 Sep 2023	12 Aug 2023
Machine Age	kms	Client Info		591041	573177	564365
Oil Age	kms	Client Info		0	0	0
Oil Changed	Client Info			Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>3.0		<1.0	<1.0	<1.0
Water	WC Method	>0.2		NEG	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>75	7	6	6
Chromium	ppm	ASTM D5185(m)	>5	0	0	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	<1	<1	<1
Aluminum	ppm	ASTM D5185(m)	>15	1	<1	2
Lead	ppm	ASTM D5185(m)	>25	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>100	9	11	10
Tin	ppm	ASTM D5185(m)	>4	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0

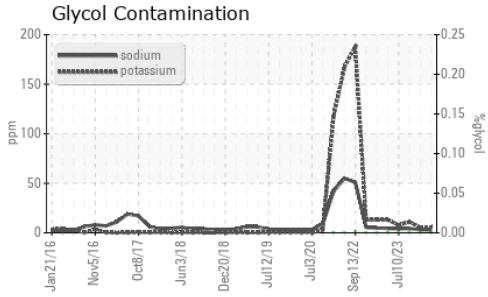
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	39	15	12	30
Barium	ppm	ASTM D5185(m)	1	<1	<1	0
Molybdenum	ppm	ASTM D5185(m)	49	10	10	28
Manganese	ppm	ASTM D5185(m)	1	0	0	0
Magnesium	ppm	ASTM D5185(m)	616	58	26	37
Calcium	ppm	ASTM D5185(m)	1554	2237	2177	2205
Phosphorus	ppm	ASTM D5185(m)	899	844	835	977
Zinc	ppm	ASTM D5185(m)	1069	1003	991	1081
Sulfur	ppm	ASTM D5185(m)	2624	2871	2792	3039
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	4	4	5
Sodium	ppm	ASTM D5185(m)		3	3	4
Potassium	ppm	ASTM D5185(m)	>20	6	6	11
Glycol	%	ASTM D7922*		0.0	0.0	0.0

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0.1	0.1	0.1
Nitration	Abs/cm	ASTM D7624*	>20	7.2	7.5	8.5
Sulfation	Abs./1mm	ASTM D7415*	>30	18.5	19.4	20.9



OIL ANALYSIS REPORT



FLUID DEGRADATION

method	limit/base	current	history1	history2	
Abs./1mm	ASTM D7414*	>25	11.4	13.6	15.3

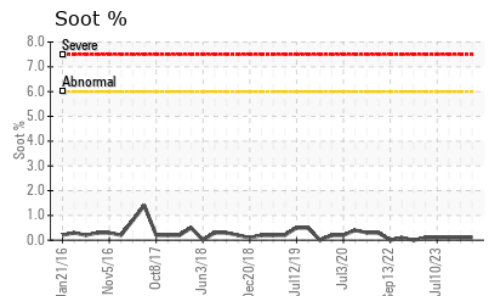
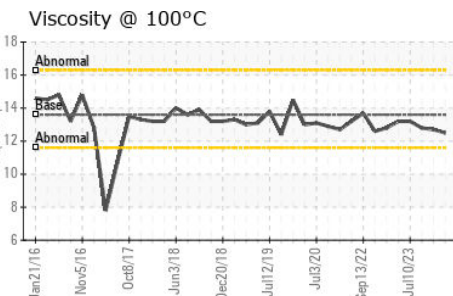
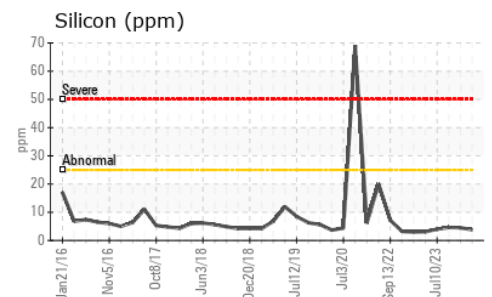
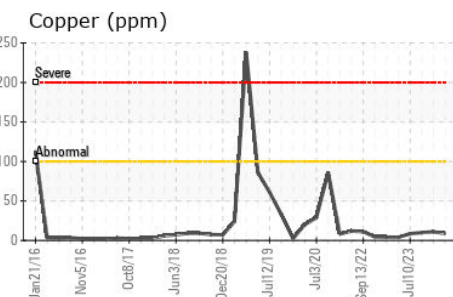
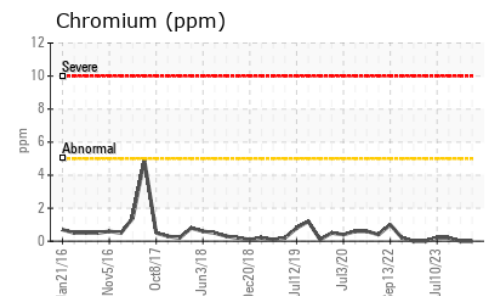
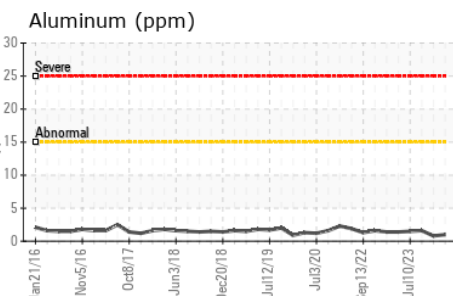
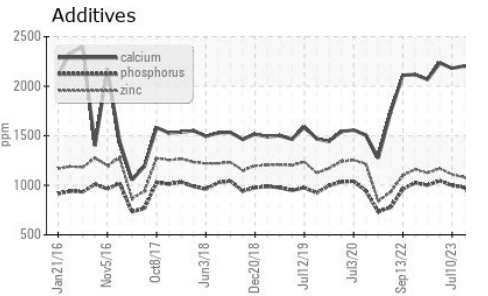
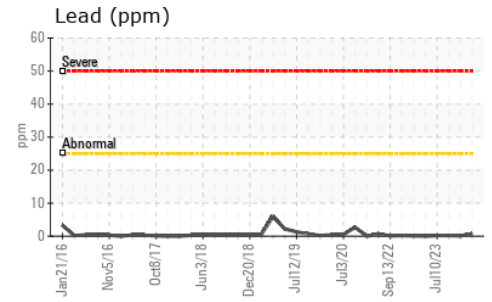
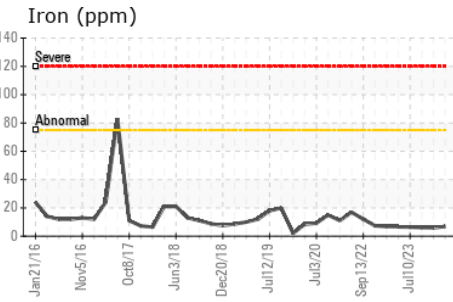
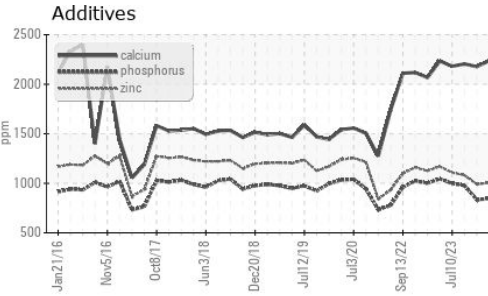
VISUAL

method	limit/base	current	history1	history2	
scalar	Visual*	>0.2	NEG	NEG	NEG
scalar	Visual*	NEG	NEG	NEG	

FLUID PROPERTIES

method	limit/base	current	history1	history2	
cSt	ASTM D7279(m)	13.6	12.5	12.7	12.8

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0875102
Lab Number : **02602784**
Unique Number : 5695869
Test Package : MOB 1 (Additional Tests: Glycol)

MVT Canadian Bus
 133 Welham Road
 Barrie, ON
 CA L4N 8Y3
 Contact: Frank Mastromarco
 frank.mastromarco@mvttransit.com
 T: (709)792-5033
 F:

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.